

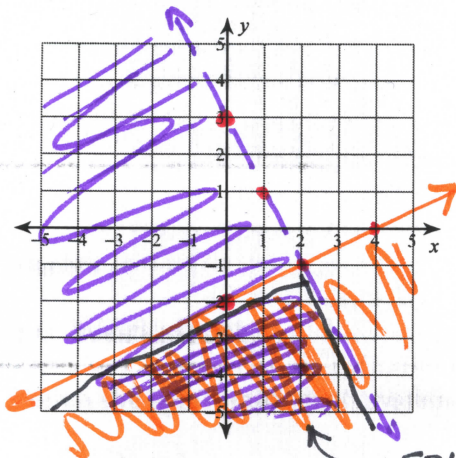
6.6 Worksheet

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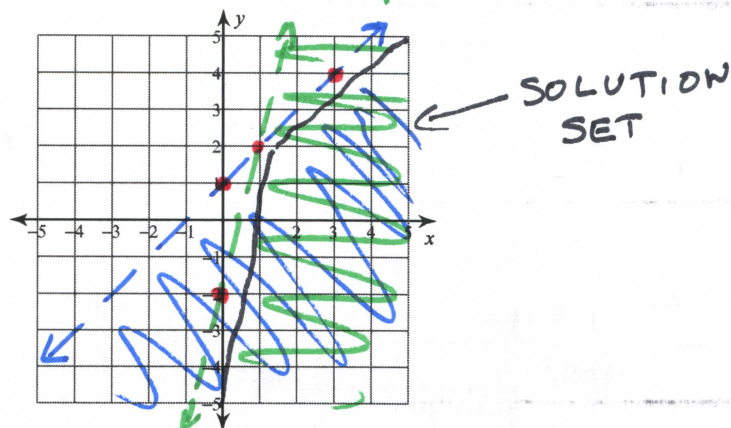
Date _____ Period _____

Sketch the solution to each system of inequalities.

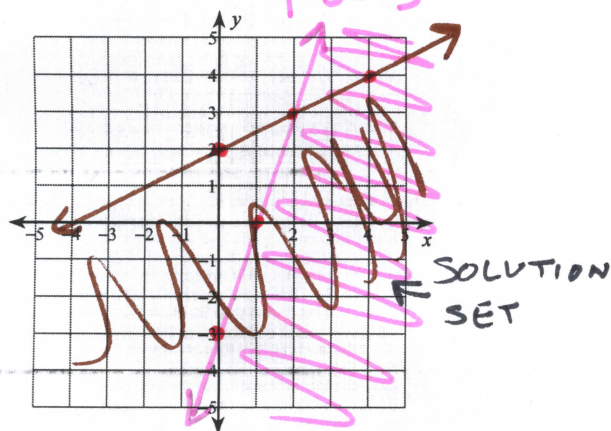
$$1) \begin{aligned} y &< -2x + 3 && \rightarrow m = -\frac{2}{1} \quad b = 3 \\ y &\leq \frac{1}{2}x - 2 && \rightarrow m = \frac{1}{2} \quad b = -2 \end{aligned}$$



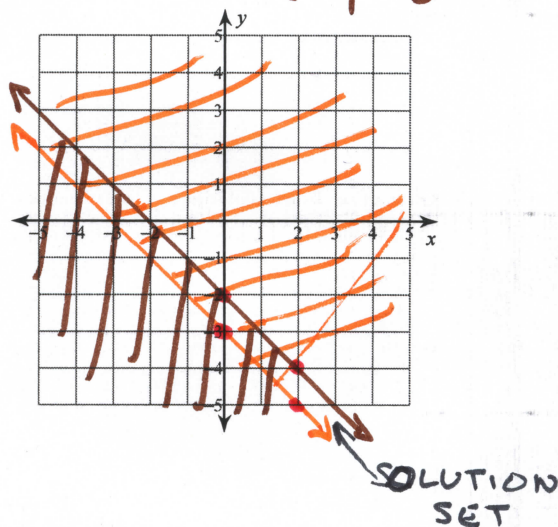
$$2) \begin{aligned} y &< x + 1 && \rightarrow m = 1 \quad b = 1 \\ y &< 4x - 2 && \rightarrow m = 4 \quad b = -2 \end{aligned}$$



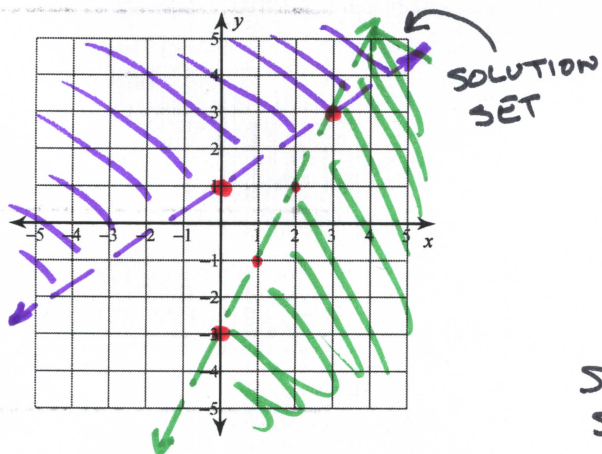
$$3) \begin{aligned} y &\leq \frac{1}{2}x + 2 && m = \frac{1}{2} \quad b = 2 \\ y &\leq 3x - 3 && m = 3 \quad b = -3 \end{aligned}$$



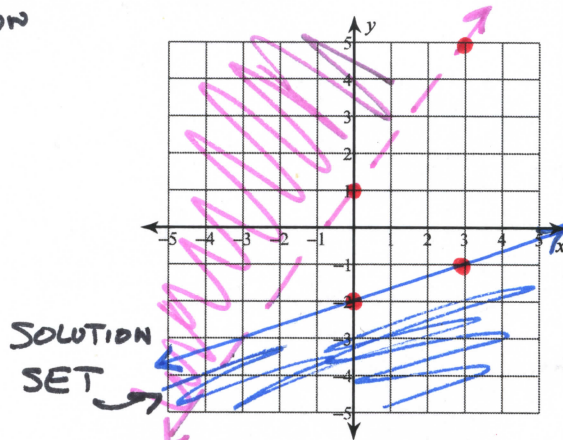
$$4) \begin{aligned} y &\geq -x - 3 && m = -1 \quad b = -3 \\ y &\leq -x - 2 && m = -1 \quad b = -2 \end{aligned}$$



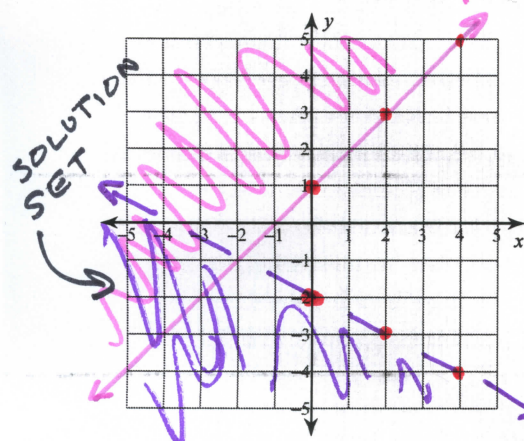
5) $y > \frac{2}{3}x + 1 \rightarrow m = \frac{2}{3} \quad b = 1$
 $y < 2x - 3 \rightarrow m = 2 \quad b = -3$



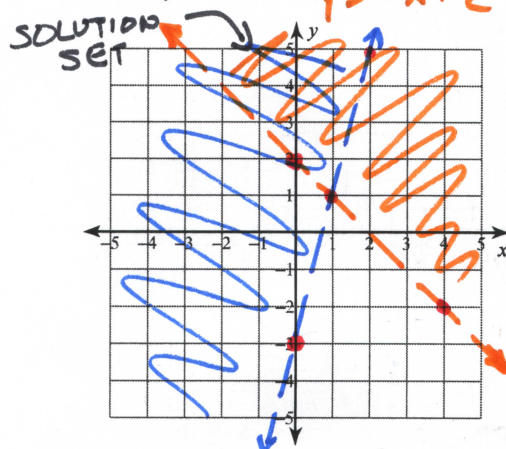
6) $y \leq \frac{1}{3}x - 2 \rightarrow m = \frac{1}{3} \quad b = -2$
 $y > \frac{4}{3}x + 1 \rightarrow m = \frac{4}{3} \quad b = 1$



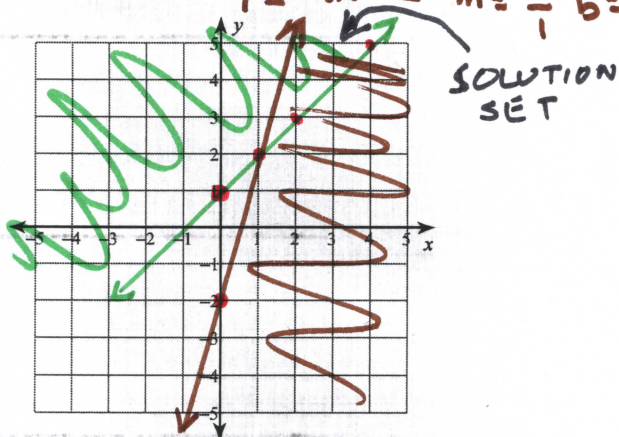
7) $y < -\frac{1}{2}x - 2 \rightarrow m = -\frac{1}{2} \quad b = -2$
 $y \geq x + 1 \rightarrow m = 1 \quad b = 1$



8) $4x - y < 3 \rightarrow y > 4x - 3 \quad m = 4 \quad b = -3$
 $x + y > 2 \rightarrow y > -x + 2 \quad m = -1 \quad b = 2$



9) $x - y \leq -1 \rightarrow y \geq x + 1 \quad m = 1 \quad b = 1$
 $4x - y \geq 2 \rightarrow y \leq 4x - 2 \quad m = 4 \quad b = -2$



10) $4x + 3y \geq 6 \rightarrow y \geq -\frac{4}{3}x + 2 \quad m = -\frac{4}{3} \quad b = 2$
 $x - 3y > 9 \rightarrow y < \frac{1}{3}x - 3 \quad m = \frac{1}{3} \quad b = -3$

